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EC71-1509 Insect Control Guide for Corn and Sorghum

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INSECT CONTROL GUIDE FOR CORN AND SORGHUM

NEBRASKA

R. E. Roselle, L. W. Andersen, D. L. Keith
Agricultural Extension Entomologists

Insect control suggestions in this guide are based on University of Nebraska research results, U.S.D.A. recommendations, and label registrations. Insect controls are not perfect. The suggestions are designed to benefit Nebraska farmers when they need control programs.

In some instances trade names have been used. No endorsement is implied by the Nebraska Cooperative Extension Service and no discrimination is intended.

TOXICITY OF INSECTICIDES

All insecticides are poisonous and must be used with caution. They should always be stored in the original container out of the reach of children, uninformed adults, and livestock. Empty containers and left-over materials must be disposed of by burying at least 18 inches in the soil away from water supplies. It is very important that the labels of every insecticide be studied until they are understood. Safety precautions and use instructions are on all labels. Follow these completely to avoid accidental poisoning or death, and to prevent illegal residues in crops.

The highly toxic insecticides in this publication are ethyl parathion, methyl parathion, endrin, phosdrin, EPN, Di-Syston, Thimet, Dyfonate, Dasanit, Systox, and Mocap. Skull and crossbones and the word Poison in red appear on the label of highly toxic materials. These chemicals are not recommended for farmer application as sprays. They must be applied only by well-trained, responsible and insured commercial operators. However, with proper precautions, farmers should be able to use granular formulations for soil application to control corn rootworms.

Moderately highly toxic insecticides are diazinon, dylox, dieldrin, toxaphene, Ethion, Trithion, aldrin, heptachlor, and lindane. They must be used with special care. Familiarize yourself with all the warnings given on the labels.

Moderately toxic insecticides are Sevin (carbaryl), Bux-Ten, chlordane, Landrin and Cygon. When using these, avoid all unnecessary exposure to the skin, lungs, and digestive system. Note the label cautions.

Furadan is highly toxic orally, moderately toxic dermally.

Registrations of some chemicals listed in this publication are subject to review and withdrawal in 1971. Visit with your county agricultural agent before making the final decision of which insecticide to use.

EC 71-1509

Abbreviations:	WP . . wettable powder	lb./gal. . pounds actual per gallon
	G . . granules	Gal. . . . gallon
	Pt . . pint	Lbs. . . . pounds
	SP . . soluble powder	D dust

SOIL INSECTS

<u>Insect</u>	<u>Material</u>	<u>Amount Active Ingredient Per Acre</u>	<u>Amount Total Formulation Per Acre</u>	<u>Restrictions</u>
CORN ROOTWORM LARVAE				
	<u>Planting Time</u>			
	Bux 10G	0.8 - 1 Lb.	8 - 10 Lbs.	Apply as a band 6 to 7 inches wide over the row and work into soil. For rows narrower than 40 inches, use recommended amount per each 13,200 feet of row.
	Dasanit 15G	0.8 - 1 Lb.	5½- 6½ Lbs.	
	Dyfonate 20G	0.8 - 1 Lb.	4 - 5 Lbs.	
	Furadan 10G	0.8 - 1 Lb.	8 - 10 Lbs.	
	Thimet 15G	1 Lb.	6½ Lbs.	
	Mocap 10G	1 Lb.	10 Lbs.	
	Do not apply Dasanit more than twice per season.			Mocap may cause a stand reduction when crusting occurs immediately after planting, or if in direct contact with seed.
	Bux can be used at planting and/or cultivation.			
	Dyfonate registered for planting time only.			
	Furadan registered for planting time only.			
	Landrin can be used at planting time only.			
	Thimet is registered for one application.			
	Do not apply Di-Syston more than 2 times.			

Cultivation Time

Bux 10G	0.8 - 1 Lb.	8 - 10 Lbs.	Apply at base of plants and cover with soil.
Dasanit 15G	0.8 - 1 Lb.	5½- 6½ Lbs.	
Diazinon 14G	1 Lb.	7 Lbs.	Diazinon, Di-Syston, and Thimet can be used over plants.
Di-Syston 15G	1 Lb.	6½ Lbs.	
Thimet 15G	1 Lb.	6½ Lbs.	

	<u>Material</u>	<u>Amount Active Ingredient Per Acre</u>	<u>Restrictions</u>
CUTWORMS			
<u>Preplant</u>	Aldrin	2 Lbs.	Broadcast 2 to 3 weeks before planting or before replanting. DO NOT USE ON fields that will be planted to root crops or legumes following corn or sorghum. DO NOT USE ON DAIRY FARMS.
	Heptachlor	2 Lbs.	
<u>Postplant</u>	Toxaphen	3 Lbs.	Concentrate over row when damage is first observed. Endrin should be applied over the row or broadcast only by experienced operators. DO NOT FEED ENDRIN OR TOXAPHENE TREATED FORAGE TO DAIRY OR MEAT ANIMALS.
	Endrin	4 Oz.	
	Dylox (Trichlorfon)	1 Lb.	
	Sevin (Carbaryl)	2 Lbs.	
	Diazinon	1 Lb.	

<u>Insect</u>	<u>Material</u>	<u>Amount Active Ingredient Per Acre</u>	<u>Restrictions</u>
WIREWORMS	Aldrin	1 Lb.	Row spray over seed furrow at time of planting. DO NOT USE ON DAIRY FARMS.
	Heptachlor	1 Lb.	
SEED INSECTS	Seed treatment with dieldrin, lindane, aldrin, heptachlor or diazinon.		Follow package directions. Never mix treated seed with feed grain.
INSECTS ATTACKING CORN ABOVE SOIL			
CORN ROOTWORM ADULTS	Sevin (Carbaryl)	1 Lb.	No restrictions.
	Ethyl parathion	4 Oz.	Ethyl parathion, methyl parathion and EPN are highly toxic chemicals. They are suggested for use only by commercial applicators. Do not apply within 14 days of harvest.
	Methyl parathion	4 Oz.	
	EPN	4 Oz.	
	Malathion	1 Lb.	5 days.
	Malathion ULV	8 Fl. Oz.	5 days-for aerial application
CHINCH BUGS	Endrin	4 Oz.	Barrier strips only. Do not feed treated forage.
	Toxaphene	2 Lbs.	Barrier strips only. Do not feed treated forage.
EUROPEAN CORN BORERS	Diazinon 14% G	1 Lb.	10 days.
	Sevin 20% G (Carbaryl)	2 Lbs.	No restrictions.
	EPN 2% G	0.2 Lb.	14 days.
GRASSHOPPERS	Toxaphene	2 Lbs.	Field margins. Do not feed treated forage.
	Chlordane	1 Lb.	Field margins. Do not feed treated forage.
	Malathion	1 Lb.	5 days.
	Malathion ULV	8 Fl. Oz.	5 days.
	Sevin WP (Carbaryl)	2 Lbs.	No restrictions.

<u>Insect</u>	<u>Material</u>	<u>Amount Active Ingredient Per Acre</u>	<u>Restrictions</u>
WESTERN BEAN CUTWORM	Endrin	4 Oz.	Do not feed treated forage.
	Sevin WP (Carbaryl)	2 Lbs.	No restrictions.
SPIDER MITES	Parathion	12 Oz.	12 days. Commercial application <u>only</u> .
	Thimet 15% granules	6 Lbs.	30 days. Commercial app. <u>only</u> . One application.
	Ethion	1 Lb.	50 days. Do not apply more than once after ears form. Do not feed treated forage.
	Trithion	1 Lb.	Do not apply more than once per season. Do not graze or cut for forage within 21 days after application.
ARMYWORMS AND FALL ARMYWORMS	Sevin WP (Carbaryl)	1.6 Lbs.	No restrictions.
	Dylox (Trichlorfon)	1 Lb.	40 days.
SORGHUM INSECTS			
CORN LEAF APHIDS	Malathion	1 Lb.	5 days. Only when infestation is severe at the time head is in the boot & later.
ARMYWORMS AND FALL ARMYWORMS	Sevin WP (Carbaryl)	2 Lbs.	21 days for grain.
	Toxaphene	1 Lb.	28 days. Do not feed treated forage to animals for slaughter. DO NOT USE ON DAIRY FARMS
GREENBUGS	Ethyl parathion	8 Oz.	12 days. Commercial app. application <u>only</u> .
	Phosdrin (Mevinphos)	3 Oz.	3 days. Commercial application <u>only</u> .
	Systox (demeton)	4 Oz.	35 days. Commercial app. <u>only</u> . One application.
	Malathion	1 Lb.	7 days. Ground application.
	Diazinon	0.5 Lb.	7 days. Ground application.
	Di-Syston	8 Oz.	28 days. Use Di-Syston only one time per 30 days season, regardless of granular application.
	Di-Syston 15G Planting time or postplant--not at both times.	1 Lb.	